AMI Family of Catalyst Characterization Instruments

AMI-300 Functions:

- ✓ Temperature Programmed Reduction
- ▼ Temperature Programmed Oxidation
- ▼ Temperature Programmed Desorption
- Pulse Chemisorption
- ✓ Flow BET

AMI-300

The AMI-300 is the "flagship" of the AMI family. It is a single station instrument, with a standalone PC, and LabVIEW-based control software. It is the instrument upon which the rest of the AMI-technology and software is based.

AMI-300ir

The AMI-300ir is a new instrument that uses a heated IR transmission cell coupled with an FTIR to gather information, in real time, as to what is actually occurring on the surface of a catalyst.

AMI-300ip

The AMI-300ip is a twoworkstation version wherein one station conducts pretreatment steps, while the second station performs a characterization experiment. Both workstations can run either a pretreatment step or a characterization experiment.

AMI-300Lite

The AMI-300Lite is an entry-level version of the AMI instrument, which sheds some features of the AMI-300 like the saturator and gas blending as a concession to pricing. However, the AMI-300Lite operates on an unattended basis and performs all TPR, TPO, TPD, and Pulse Chemisorption functions.

AMI-300R

The AMI-300R is the reaction-version of the AMI-300. It is equipped with additional gas feeds and HPLC pump(s) with vaporizer(s) to facilitate reaction studies. The AMI-300R is also equipped with an auxiliary vent to route reactant gases directly to a secondary detection device (e.g., RGA, GC, or MS).

AMI-3300

The AMI-3300 is the three-workstation version of the AMI-300. It provides all of the features of the AMI-300 instrument and can run three independent experiments simultaneously. It is controlled via a single PC.

AMI-3300Lite

The AMI-3300Lite is the three-workstation version of the AMI-300Lite. It provides all of the features of the AMI-300Lite instrument and can run three independent experiments simultaneously. It is controlled via a single PC.

AMI-300RHP

AMI-300RHP is the custom highpressure version of the AMI-300-R. It is equipped to provide 50 bargs (or more) of operating pressure during a reaction experiment.

AMI-5300

The AMI-5300 is the fiveworkstation version of the AMI-300, which can run five independent experiments simultaneously. It is controlled via one or two PC's.

AMI-5300Lite

The AMI-5300Lite is the fiveworkstation version of the AMI-300Lite, which can run five independent experiments simultaneously. It is controlled via one or two PC's.

AMI-8300

The AMI-8300 is the eight-workstation version of the AMI-300, which can run eight independent experiments simultaneously. It is controlled via two PC's.

AMI-8300Lite

The AMI-8300Lite is the eightworkstation version of the AMI-300Lite, which can run eight independent experiments simultaneously. It is controlled via two PC's.